**Balancing/Classifying Equations**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Per.\_\_\_\_\_\_

Balance the following equations. Identify which type of equation it is.(COM- combustion, SYN-synthesis, DEC-decomposition, SD-single displacement, DD-double displacement)

1. \_\_\_\_\_\_\_\_ C + \_\_\_\_\_\_\_\_ O2 🡪 \_\_\_\_\_\_\_\_CO2

Type\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_ Fe + \_\_\_\_\_\_\_\_ S 🡪 \_\_\_\_\_\_\_\_FeS

Type\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_ Fe + \_\_\_\_\_\_\_\_ O2 🡪 \_\_\_\_\_\_\_\_Fe O

Type\_\_\_\_\_\_\_\_\_\_\_\_\_

4. \_\_\_\_\_\_\_\_ NaOH + \_\_\_\_\_\_\_\_ HCl 🡪 \_\_\_\_\_\_\_\_NaCl + \_\_\_\_\_\_\_\_ H2O or (HOH)

Type\_\_\_\_\_\_\_\_\_\_\_\_\_

5. \_\_\_\_\_\_\_\_Mg + \_\_\_\_\_\_\_\_ O2 🡪 \_\_\_\_\_\_\_\_MgO

Type\_\_\_\_\_\_\_\_\_\_\_\_\_

6. \_\_\_\_\_\_ Fe + \_\_\_\_\_\_\_ Cu(NO3)2 🡪 \_\_\_\_\_\_\_\_Cu + \_\_\_\_\_\_\_\_ Fe(NO3)2

Type\_\_\_\_\_\_\_\_\_\_\_\_\_

7. \_\_\_\_\_\_\_\_ H2O 🡪 \_\_\_\_\_\_\_\_ H2 + \_\_\_\_\_\_\_\_O2

Type\_\_\_\_\_\_\_\_\_\_\_\_\_

8. \_\_\_\_\_\_\_\_ Hg2O 🡪 \_\_\_\_\_\_\_\_ Hg + \_\_\_\_\_\_\_\_O2 Type\_\_\_\_\_\_\_\_\_\_\_\_\_

9. \_\_\_\_\_\_\_\_ C3H8 + \_\_\_\_\_\_\_\_ O2 🡪 \_\_\_\_\_\_\_\_CO2 + \_\_\_\_\_\_\_\_ H2O

Type\_\_\_\_\_\_\_\_\_\_\_\_\_

10. \_\_\_\_\_\_\_\_ CaI2 + \_\_\_\_\_\_\_\_ Cl2 🡪 \_\_\_\_\_\_\_\_CaCl2 + \_\_\_\_\_\_\_\_ I2

Type\_\_\_\_\_\_\_\_\_\_\_\_\_

11. \_\_\_\_\_\_\_\_ S + \_\_\_\_\_\_\_\_ O2 🡪 \_\_\_\_\_\_\_\_SO2

Type\_\_\_\_\_\_\_\_\_\_\_\_\_

12. \_\_\_\_\_\_ AgNO3 + \_\_\_\_\_\_\_ NaCl 🡪 \_\_\_\_\_\_\_AgCl + \_\_\_\_\_\_\_ NaNO3

Type\_\_\_\_\_\_\_\_\_\_\_\_\_

13. \_\_\_\_\_\_\_\_ HCl + \_\_\_\_\_\_\_\_ Zn 🡪 \_\_\_\_\_\_\_\_ZnCl2 + \_\_\_\_\_\_\_\_ H2

Type\_\_\_\_\_\_\_\_\_\_\_\_\_

14. \_\_\_\_\_\_ NaOH + \_\_\_\_\_\_\_ FeCl2 🡪 \_\_\_\_\_\_\_NaCl + \_\_\_\_\_\_\_ Fe(OH)3

Type\_\_\_\_\_\_\_\_\_\_\_\_\_